





The image shows a Kali Linux terminal window with a dark background and a blue/white abstract pattern. The terminal output is as follows:

```
(kali@berke)~/hw2
$ sudo perf stat -d ./hw2 myDir 2
[sudo] password for kali:
Starting processing with 2 threads...
Thread 1 found 117 primes in myDir/file5.txt (0.000183 seconds)
Thread 2 found 95 primes in myDir/file19.txt (0.000213 seconds)
Thread 5 found 99 primes in myDir/file21.txt (0.000154 seconds)
Thread 4 found 95 primes in myDir/file22.txt (0.000151 seconds)
Thread 3 found 116 primes in myDir/file16.txt (0.000142 seconds)
Thread 6 found 114 primes in myDir/file23.txt (0.000112 seconds)
Thread 7 found 103 primes in myDir/file4.txt (0.000106 seconds)
Thread 8 found 111 primes in myDir/file13.txt (0.000127 seconds)
Thread 9 found 91 primes in myDir/file17.txt (0.000099 seconds)
Thread 10 found 98 primes in myDir/file11.txt (0.000106 seconds)
Thread 13 found 124 primes in myDir/file18.txt (0.000098 seconds)
Thread 15 found 113 primes in myDir/file7.txt (0.000105 seconds)
Thread 12 found 111 primes in myDir/file8.txt (0.000110 seconds)
Thread 17 found 110 primes in myDir/file6.txt (0.000104 seconds)
Thread 14 found 89 primes in myDir/file12.txt (0.000130 seconds)
Thread 19 found 107 primes in myDir/file10.txt (0.000127 seconds)
Thread 20 found 122 primes in myDir/file3.txt (0.000120 seconds)
Thread 18 found 108 primes in myDir/file9.txt (0.000100 seconds)
Thread 16 found 110 primes in myDir/file1.txt (0.000111 seconds)
Thread 11 found 116 primes in myDir/file24.txt (0.000182 seconds)
Thread 21 found 105 primes in myDir/file2.txt (0.000168 seconds)
Thread 23 found 100 primes in myDir/file15.txt (0.000113 seconds)
Thread 22 found 93 primes in myDir/file20.txt (0.000140 seconds)
Thread 24 found 96 primes in myDir/file14.txt (0.000121 seconds)

Total execution time: 0.002110 seconds
Processed 24 files with 2 threads

Performance counter stats for './hw2 myDir 2':

      6,56 msec task-clock                    #    1,713 CPUs utilized
         43      context-switches             #    6,558 K/sec
         17      cpu-migrations               #    2,593 K/sec
        141      page-faults                  #   21,504 K/sec
  24.459.704      cycles                       #    3,730 GHz
  5.727.668      stalled-cycles-frontend      #   23,42% frontend cycles idle
  27.384.998      instructions                 #    1,12  insn per cycle
                                   #  0,21  stalled cycles per insn
    6.039.383      branches                    #   921,061 M/sec
    205.404      branch-misses                #    3,40% of all branches
    6.195.877      L1-dcache-loads             #   944,928 M/sec
<not counted>   L1-dcache-load-misses        #
<not supported> LLC-loads                    #
<not supported> LLC-load-misses              #

    0,003827751 seconds time elapsed

    0,005898000 seconds user
    0,000000000 seconds sys

Some events weren't counted. Try disabling the NMI watchdog:
echo 0 > /proc/sys/kernel/nmi_watchdog
perf stat ...
echo 1 > /proc/sys/kernel/nmi_watchdog
```











```

(kali@berke)~[/hw2]
$ sudo perf stat -d ./hw2 myDir 64
Starting processing with 64 threads...
Thread 2 found 95 primes in myDir/file19.txt (0.000178 seconds)
Thread 1 found 117 primes in myDir/file5.txt (0.000293 seconds)
Thread 3 found 116 primes in myDir/file16.txt (0.000189 seconds)
Thread 4 found 95 primes in myDir/file22.txt (0.000179 seconds)
Thread 5 found 99 primes in myDir/file21.txt (0.000212 seconds)
Thread 6 found 114 primes in myDir/file23.txt (0.000146 seconds)
Thread 7 found 103 primes in myDir/file4.txt (0.000125 seconds)
Thread 8 found 111 primes in myDir/file13.txt (0.000121 seconds)
Thread 9 found 91 primes in myDir/file17.txt (0.000117 seconds)
Thread 10 found 98 primes in myDir/file11.txt (0.000116 seconds)
Thread 11 found 116 primes in myDir/file24.txt (0.000176 seconds)
Thread 12 found 111 primes in myDir/file8.txt (0.000148 seconds)
Thread 13 found 124 primes in myDir/file18.txt (0.000121 seconds)
Thread 14 found 89 primes in myDir/file12.txt (0.000142 seconds)
Thread 15 found 113 primes in myDir/file7.txt (0.000126 seconds)
Thread 16 found 110 primes in myDir/file1.txt (0.000162 seconds)
Thread 17 found 110 primes in myDir/file6.txt (0.000145 seconds)
Thread 18 found 108 primes in myDir/file9.txt (0.000136 seconds)
Thread 19 found 107 primes in myDir/file10.txt (0.000131 seconds)
Thread 20 found 122 primes in myDir/file3.txt (0.000139 seconds)
Thread 21 found 105 primes in myDir/file2.txt (0.000130 seconds)
Thread 22 found 93 primes in myDir/file20.txt (0.000130 seconds)
Thread 23 found 100 primes in myDir/file15.txt (0.000135 seconds)
Thread 24 found 96 primes in myDir/file14.txt (0.000140 seconds)

Total execution time: 0.001901 seconds
Processed 24 files with 64 threads

Performance counter stats for './hw2 myDir 64':

      6,96 msec task-clock                #    1,706 CPUs utilized
           21 context-switches           #    3,019 K/sec
              0 cpu-migrations            #    0,000 /sec
          138 page-faults                 #   19,842 K/sec
  17.511.520 cycles                       #    2,518 GHz           (78,77%)
   6.045.470 stalled-cycles-frontend      #   34,52% frontend cycles idle
  27.282.719 instructions                 #    1,56 insn per cycle
                                     #  0,22 stalled cycles per insn
   6.024.276 branches                     #   866,177 M/sec
    202.095 branch-misses                 #    3,35% of all branches
   8.248.408 L1-dcache-loads               #    1,186 G/sec           (58,36%)
<not counted> L1-dcache-load-misses       #                    (0,00%)
<not supported> LLC-loads
<not supported> LLC-load-misses

   0,004077436 seconds time elapsed

   0,002259000 seconds user
   0,003388000 seconds sys

Some events weren't counted. Try disabling the NMI watchdog:
echo 0 > /proc/sys/kernel/nmi_watchdog
perf stat ...
echo 1 > /proc/sys/kernel/nmi_watchdog

(kali@berke)~[/hw2]
$

```



